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APPLICANT:

NIPPON SODA CO LTD:

INVENTOR:

KINOSHITA MASAAKI;

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TITLE

: NOVEL FLUORAN COMPOUND AND

COLORING RECORDING MATERIAL

USING THE SAME

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1¹

 $R_{s} > N - O - NH - O - OH - HO O - OR_{2}$

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ABSTRACT :

PURPOSE: To obtain the novel compound, expressed by a specific structural formula, capable of developing a black color, excellent in shelf stability against such as plasticizer, oil, wet heat and light and useful as coloring recording materials such as heat-sensitive recording paper or pressure-sensitive copying paper.

CONSTITUTION: This compound is expressed by formula I (R¹ and

R² are each a 1-5C alkyl, an alkenyl, a 4-6C cycloalkyl or an aryl-substituted

1-3C alkyl; R1 and R2 together with the adjacent N atom form

pyrrolidino, piperidino or morpholino; R3 is H, a 1-5C alkyl, an alkenyl, a 4-6C

cycloalkyl, an aryl or an aryl-substituted 1-3C alkyl), e.g.

3-methoxy-6-(4-dimethylaminophenyl) aminofluoran. Furthermore, in production thereof, a benzoylbenzoic acid derivative expressed by formula II is reacted with a 3-aminophenol derivative expressed by formula III in the presence of a dehydration condensing agent to synthesize a phthalide compound expressed by formula IV, which is then intramolecularly cyclized in the presence an alkaline substance in an organic solvent to provide the

compound.

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